OMRON

型 \$8 】 开关电源

CHN 使用说明书

感谢您购买了S&JX产品。 此说明书内记载了S&JX使用时的功能、性能以及使用方法。 ·请由具备但与取识的专业人及来操作S&JX。 ·请充公阅读并理解本使用说明书的内容之后,再正确使用本

· 请妥善保管本使用说明书以便作参考。

OMRON Corporation

警告标识的含义

△ 注意

要马上接触电源本体。

若操作不当的话有可能发生轻中度伤害或设备损

• 警告标识

▲ 注意	
 可能会引起触电、起火或产品损坏。严禁拆分、改造、 修理本产品或触摸产品内部。 	1
 可能会引起轻度的烫伤。通电中以及电源刚切断后请求 要马上接触由源本体。 	[₹] 🔬

• 可能会引起燃烧。请在规定扭矩(1.13N•m)下紧固端子

可能会引起因触电所导致的轻伤。通电中严禁触摸端子配线后需关闭端子盖。通电时,本体内部电压最大为370V。切断电源后30秒内会残留此电压。 A

可能引起轻度触电,燃烧,机器故障等危险。请不要使金属,导线或安装加工时产生的粉尘进入本产品内。 ⚠

CHN 安全注意

(1) 安装/存储环境

- 竟温度为-25~+65℃,相对湿度为25~90%的条件下储
- ※ペーアー節。 2. 由于安装状态不同出現的散熱不良会导致内部元器件性能恶化或 振坏。请不要在非标准安装状态下使用本产品。 3. 可能会引起内部元件破損、悪化。请不要在超过使用温度范围的 情况下使用本产品。

研究「使用本产品。 请在相对遵復25~85%的场所内使用本产品。 请不要在日光直射的环境下使用本产品。 请不要在夜体,异物以及腐蚀性气体可能进入产品内部的场所下 使用本产品。

使用本产品, 一. 避免冲击电振动, 舱电斯落悬装置可能会产生振动,本产品应置于尽可能远离噪音 源的地方以避免冲击或振动。 8. 如果本产品在具有较多电子噪音的环境下工作时,请尽可能把本 产品放置在远离噪音源的地方。 少如果散基内,本产品内部无器件性能可能恶化或损坏,所以请 不要擅自拧松电源本体上的螺丝。

(2) 设置/配线

2) 改置/而线 . 消病完全接地。确保接地端子处于安全使用状态。 当接地不完全时,可能会引起触电和误动作。 2 可能发生轻盈的起火。请注意不要将输入输出端子误配线。 3.为防止因负载异常所引起向配线材料的冒烟、起火,请选择额定 电流值1.6倍以上的线径。关于线材的选择请参考电线厂家的推荐 允许电流和电压降等资料。

型号	推荐使用线径	扭矩	П	
S8JX- 30024 S8JX- 30048		40: 11 (4 404)	l	
S8JX- 060024 S8JX- 60048	AWG12 to 14(横截面积 2.081 to 3.309mm²)	10 in.lb.(1.13N+m)		

- 每个输出端子的额定电流为20A。如果电流超过端子的额定值时,请确保同时

- 4. 紧固端子时,请不要用75N以上的力去按压端子台。 5. 为使散热通畅,通电前请取下加工时覆盖在产品上的薄膜。
- (3) 输出电压调整 1. 输出电压调节旋钮(V.ADJ)可能会被损坏。所以请勿施加不必要的
- 外力。 2. 请确保在输出电压调整后,不要超过额定输出功率和额定输出电

CHN 使用时的注意事项

在客户的应用中,欧姆龙不负责产品与任何客户端产品所涉及的规格、规范和标准保持一致性。 请务必考虑本产品对于所应用的系统、机器和设备间的适用性。

在没有确认整个系统设计时所考虑到的风险,以及没有确认在设备 和系统中该取缔龙产品的额定使用条件和正确安装条件的情况下, 禁止将本产品应用于对人身及财产存在严重危险的场合。

OMRON

MODEL SBJX SWITCHING POWER SUPPLY

EN INSTRUCTION MANUAL

Thank you for purchasing the SBJX. This instruction Manual describes the functions, performance, and application methods required to use the SBJX. Make sure that a specialist with electric knowledge operates the SBJX. Plead and understand this instruction Manual, and use the product with

emough understanding. Keep this Instruction Manual close at hand and use it for reference during

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Key to Warning Symbols

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.

· Warning Symbols

- Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product or touch the interior of the Product. 1
- Minor burns may occasionally occur. Do not touch the Productive while power is being supplied or immediately after power is turned OFF.
- Minor fires may occasionally occur. Tighten terminal screws to a torque of 10 in. lb. (1.13 N•m) so that they do not become
- Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied. Always close the terminal cover after wiring.

 Working voltage can be 370V max. inside. This voltage can be also available 30s after the switch off. A
- Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.

sure to separate the Power Supply as tar as possible normal sources. 9. The internal parts may occasionally deteriorate and be broken due to adverse heat radiation. Do not loseen the screws on the Power Supply. (2) Arrangement/Wirling 1. Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely. 2. The light lightion may possibly be caused. Ensure that input and output terminals are wired correctly. 3. Use the following wiring meterial to prevent smoking or ignition of wiring material caused by abnormal loads. Over heating of tire can result from inadequately sized wiring materials wh Over heating or fire can result from inadequately sized wiring materials problems occur at the load. As a general rule, always select wire sizes suitable for at least 1.6 times the rated current. Refer to the wiring manufacturer's recommended allowable current and voltage drop specifications for information when selecting wiring materials. Recommended Wire Type Torque

EN Precautions for Safe Use Installing/Storage Environment
Store the product with ambient temperature –25 to +65°C, and relative humidity 25 to 90%.

numidity 2s to 90%.

The internal parts may occasionally deteriorate and be broken due to adverse heat radiation depending on the mounting status.

Do not use the product in any way other than the standard mounting.

The internal parts may occasionally be deteriorated or broken. Do not use the product in the condition over the operation ambient temperature range.

Use the product where the relative humidity is 25 to 85%.

Avoid places where the product is subjected to direct sunight.

Avoid places where the product is subjected to generation of liquid, foreign

Avoid places where the product is subjected to penetration of liquid, foreign substance, or corrosive gas.
Avoid places subject to shock or vibration.
A device such as a contact breaker may be a vibration source. Set the Power Supply as far as possible from possible sources of shock or vibration.
If the Power Supply is used in an area with excessive electronic noise, be sure to separate the Power Supply as far as possible from the noise

Model S8JX- 30024 ... S8JX- 700" AWG12 to 14/Cross section 2 081 to 3 309mm²) 10 in.lb.(1.13N S8JX- 60024 S8JX- 60048

he current rating for the output terminal is 20A per terminal. Make sure to use two te opether if a current exceeding the terminal rating is used. Ise mis.RD°C or 6075°C site.

Do not apply more than 75 N force to the terminal block when tightening it
 Be sure to remove the sheet covering the product for machining hefore

power-on.

3) Output Voltage Adjustment

1. The output voltage adjuster (VADJ) may possibly be damaged. Do not addunneessary power.

2. Do not exceed the rated output capacity and current after adjusting the output voltage.

EN Suitability for Use

MRON shall not be responsible for conformity with any standards, codes, or guidations that apply to the combination of the products in the customer's polication or use of the product. essary steps to determine the suitability of the product for the

Know and observe all prohibitions of use applicable to this product.

INEVERT USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS

RISK TO LIFE OF PROPERTY WITHOUT ENSURING THAT THE SYSTEM

THE CHEM'S BELLOCIS IS THE OFFICE AND PROPERTY AND THAT

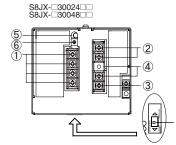
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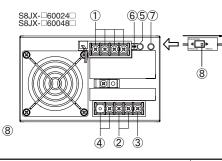
INTENDED USE WITHIN THE OFFICE COUPMENT OF BYSTEM.

EN Nomenclature

Fig.1

(Fig. 1) 各部位名称/Nomenclature





DC output terminal (-V), (+V) AC input terminal (The fuse is located on the (L) Protect function On indicator(Red) Switch for parallel operation CHN 安全规格 EN Safety standards

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⚠

DC输出端子(①)与AC输入端子(②)是相互电气绝缘的 过电压 category III。 这个设备为防护等级1。 气候等级: 3K3 IEEN50178(=VDE0160)。

CHN 各部位名称

包压category II。 图UL60950-1 和 EN60950-1。

RGMCU-00990-1 和 EN60990-1. CSA Level 5. 针対UL508而言,周閉温度(Surrounding Air Temperature)是40℃。 (S8JX-□30048□□:25℃)

(Fig.1)

4. Climatic class: 3K3

- According to EM50178(=VDE0160).

Overvoltage category II.

- According to UL60950-1 and EN60950-1.

SSA Level 5

Surrounding Air Temperature according to UL508.40 °C

(SBJK.—3000481—325°C)

CHN 使用注意

■安装

侧面安装、侧面) 交装电源对为了能长期高效地使用电源,消让愈合理有效地散热。 \$33.K7.30024(口)7_30048[口采用空气信息对流散治方式,安装时请使电源 周围的空气料于50024(1)750048[口采用强制风冷的散热方式,为了能得到足够的风 冷发果,请不要拉他国和口 (风崩的微配面积反面) 一当交换形上的螺旋时,螺旋在电源均侧突沿不允许超过8mm。 安装螺丝的用距。 通光排散含漏板作为套装面板。

■衰减曲线 衰减曲线请参考S8JX产品目录。

■ 输入电压选择 出厂设置为200-240VAC。可以通过使用短路片短接输入电压选择端子,)

排100~120VAC也压。 短路: 100~120VAC (85~132VAC) 开路: 200~240VAC (170~264VAC)

■ 并联运行 在额定负载的80%以下能进行并联运行。 (Fig.1) (Fig.5)

tt: 1.要进行并联运行时,请将开关®拨到"PARALLEL"侧。 2.连接负载的每根导线的长度和粗细必须相同,这样在每台电源的输出端子 负载阅就不会有不同的电压路。 3.尽可能将每台电源的电压调节旋钮"V.ADJ" @设定为相同的值。

输出由压调整

输出电压调整 出厂时、设定输出电压为频定电压。 调整范围:调节产品正面的"VADI"◎旋钮,调节范围从额定输出电压的 -10%到±15%(48V 型为±10%)。 照对针接转时增大输出电压,逆时针旋转时减小输出电压。

1. 请确保在输出电压调整后,不要超过额定输出功率和额定输出电流。
 2. 通过"VADJ" @ 的调节,输出电压可能上升到电压可变范围之上。 所以调整输出电压时,请确认电源的输出电压并防止负载遭到破坏。

耐电压实验

間 "比比不不加。 鐵定耐电压。 3000VAC于《所有输入端子②》和《所有输出端子①》之间持续1分钟。 实验时,耐电压测试装置的切断电流设置为25mA。

1. 突然加载3000VAC高压可能产生电压冲击而损坏电源。请缓慢增加 ·实验电压。 时,短接所有输出端子以避免端子受损。

绝缘电阻实验 实验采用直流500VDC欧姆表。

汪: 实验时,短接所有输出端子以避免端子受损。

■ 过载保护

过载保护 该助信可以自动保护负载和电源免交迁电流的损害。如果负载超过额定值的 105%。这就保护开始工作。当过载状态解除时,过载保护自动政治。 对系BLX1-(20024/1-106048)。当连载状态持续形以上时,也影响出切断。 同时保护间路动扑指示对龙龙起、如果要让电源复位。请先将电源输入切断方数度分钟起,是能重新背和电路 级宽分钟程足,是能重新背和电路

注: 1. 如果在电源短路或过电流状态下持续运行,电源内部元器件性能可能恶化或损

4. 请不要在过载或输出侧浪涌电流频繁发生的情况下使用该产品。电源内部元器件性能可能恶化或损坏。

■ 计由压保护

过·巴瓜怀护。 结电凝缩修自动保护自身及负载免受过电压的损害。 如果输出电压超过频定输出电压的120%以上时,过电压保护开始工作,同时保 炉阳感亦排形式合类起。(以88.1%=60042/1600480寸排示式) 如果要让电源复位、请先将电源输入切断并放置3分钟以上,然后再重新开启电源

: 重新开启之前,请确保引起过电压的原因已被排除。

■ 过热保护(仅S&IX、□60024□/□60048□) 由于风扇形止或其能原因使电源内部温度上升时,过热保护回路能自动保护电源 内部元器件处受损害。同时保护回路动作指示灯会死起,如果要让电源复位。请 先将电源输入切断并放置3分钟以上,然后重新开自电源。

1果电源没有输出,请在与敝公司联系之前先检查以下2点: 检查过载保护状况: 检查负载是否处于过载状态或短路状态。检查时请移除接在负载上的连线,看

位上文表之条合已被消除。 - 为了消除过电压或口锁保护功能。 关闭电源,放置3分钟以上,然后再开启电源,看上述状态是否已被消除。

箱合EC指令 前参与每届日录和本使用影明书来具有符合EMC指令的使用条件。 需告本产品等级为Class A. 在居住、商业或装工业环境下可能发生无线干扰。 限为本产品等权付款分库配件以及商业、轻工业环境下与商用电源连接、所以 请使用者采取足够措施来降低干扰。

■ Mounting

Standard mounting

Standard mounting

Standard mounting

Standard mounting

Standard mounting

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To doe the standard mounting

The SBAXC_100024_TI(St0046_TID on that the air-flow circulates around it, as it is designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed to radiate heat by means of thoread air-flow designed the radiate heat by means of the radiate heat

Selecting input Voltage
The factory-set is 200 VAC. Short the input voltage si
100 VAC. Fig.4 Short-circuit: 100~120 VAC (85 to 132 VAC) Open-circuit: 200~240 VAC (170 to 264 VAC)

Fig.1) Fig.5)

Parallel operation is possible under 60% of the rated value. New possible in parallel set is evilled; by the PARALLEL radio. The season is The parallel radio radio read the result of the PARALLEL radio. The season is 2. The territy and thickness of each view connected to the load must be cought terminated of each flow 3. It is desirable to set the same value on the voltage adjuster of each Power Supply. Output Voltage Adjustment | Default Setting Set at the rated voltage. Adjustable Range Adjustment | Default Setting Set at the rated voltage. Adjustable Range Adjustable with VALD* @ on the front surface of the product from -10% to 15% (et 0% for 40% bype) of the rated output voltage. Turning obscilects for excesses the output voltage, and furning countertockwise decrease the voltage, and for the radio recommended the control of the control

noves:

1. Do not exceed the rated output capacity and current after adjusting the ox.

2. The output violage may increase beyond the allowable voltage range whe performed for "ADJ" ©. When adjusting the output voltage, check the opower supply and be sure that the load is not destroyed.

Dielectric Strength Test

Rated dielectric strength:

od dielectric strength:
DVAC between mailto:single-ter and <output terminals () together > and <output terminals () together > for 1
title. When testing, set the cutoff current for the withstand voltage test device to 25mA.

switching of 3000VAC may possibly cause a voltage surge, damaging the power crease/decrease test voltage gradually. florming the test, be sure to short-circuit all the output terminals to protect them Then performing the test, be sure to short-circuit all the output terminals to protect them to amage. Ulation Resistance Test en testing the insulation resistance of the power supply, use a DC ohmmeter at 500VDC.

Note: When performing the test, be sure to short-circuit all the output terminals to protect them from damage.

EN Precautions for Correct Use

 Overload Protection
 The load and the power supply are automatically protected from overcurrent damage by this function.

Overload protection is activated if the output current rises above 105% of the rated current. When the output current returns within the rated range, overload protection is automatically

cleared.

For the SBUX-[80024]/[\$0048], output is shut off when overload condition is continued for 5 seconds or more, and simultaneously protect function ON indictor lights. If this occurs, to reset the Power Supply, turn it off for 3 minutes min., and then turn it on again.

peration is continued when the Power Supply has beneficially continued when the Power Supply has been short-directled or in an overrus, internal parts in the Power Supply may occasionally deteriorate or be damaged internal parts may possibly be deteriorated or damaged. Do not use the product for iccations where the load causes frequent intursh current and overhoad.

applications where the cost causes tracepes manner causes the cost of the cost causes the cost of the cost causes the cost of the cost of

Note: Description of the cause of the coveredispe, before furning on the power supply.
Description of the cause of the coveredispe, before furning on the power supply.
Description of the cause of th

infinitions miss, aims miss our averagement. The case there is to Youthet Vollage to Case there is to Youthet Vollage condition, or may be due to the functioning of a latching protective device. The latching way operate if a large amount of super vollage such as a Splerheim gurge occurs while is, on the power supply. The condition of the condits of the condition of the condition of the condition of the cond

checking.

Attempt to clear the overvoltage or latching protection function:
Turn the power supply of once, and leave in off for at least 3 minutes. Then turn it on a
Conformance to EQ Directives
Refer to the catelogue and the instruction manual for details on the operating condition for
Extra-compliance.

Refer to the catelogue and the instruction manual for details on the operating condition for
Extra-compliance.

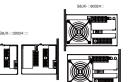
The product is not instruction control of the catelogue and the instruction manual for details on the operating condition for
Extra-compliance.

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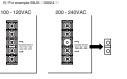


Fig. 2

标准安装(侧面)/Standard Mounting (Side)



输入电压选择/Selecting Input Voltage





并联运行/Parallel Operation

(Fig. 4)

(Fig. 5)